

# GLOBAL CHANGE EDUCATION PROGRAM

## *SURE ORIENTATION AND SHORT COURSES WORKSHOP*

*June 10 — June 17, 2001*

### *A G E N D A*

*JUNE 10, 2001 - SUNDAY*

8:00 a.m. - 4:00 p.m.: **WELCOME to the Campus of Indiana University**

*Registration -- Lobby of Eigenmann Hall*

*Housing Assignments*

- *Room Keys*
- *Meal Tickets*

6:00 - 9:00 p.m.

*Indiana Memorial Union — State Room West*

**INITIAL WORKING SESSION**      *Food and Beverages*

**Introductions**

Milton Constantin, Program Manager - GCEP  
Oak Ridge Institute for Science and  
Engineering (ORISE)

**An Overview of the Midwestern NIGEC Program**

J.C. Randolph, Director  
The National Institute for Global Environmental Change  
Midwestern Region

**Goals and Objectives for Summer 2001**

Jeffrey Gaffney, Chief Scientist – GCEP  
Argonne National Laboratory

# GLOBAL CHANGE EDUCATION PROGRAM

## *SURE ORIENTATION AND SHORT COURSES WORKSHOP*

*JUNE 11, 2001 - MONDAY*

7:30 - 8:15                      Breakfast                      Wright Quadrangle

### **Morning Session                      Woodburn Hall - Room 101**

8:30 - 9:20                      ***Welcome to SURE Orientation***                      Milton Constantin  
GCEP Program Manager  
Oak Ridge Institute for Science and Education (ORISE)

***Welcome to DOE/Global Change Education Program***                      Peter Lunn  
Program Director for Atmospheric Science  
U.S. Department of Energy (DOE)

***Welcome to NIGEC and Indiana University***                      J.C. Randolph, Director  
National Institute for Global Environmental Change (NIGEC)  
Midwestern Region

***Overview of Orientation and Short Course***                      Jeffrey Gaffney  
GCEP Chief Scientist  
Argonne National Laboratory (ANL)

9:20-10:20                      ***Urban Air Chemistry and Solar Ultraviolet Radiation***                      John E. Frederick  
The University of Chicago

10:30-11:00                      Break

11:00-12:00                      ***Role of Land Surface Processes in the Continental Water Cycle***                      Marvin Wesely  
Argonne National Laboratory (ANL)

12:00-1:30                      Lunch

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## *SURE ORIENTATION AND SHORT COURSES WORKSHOP*

*JUNE 11, 2001 - MONDAY*

### *Afternoon Session*                      *Woodburn Hall – Room 101*

1:30-2:30      *Shuttle Photos of the Planet: Aerosols, Climate Change, and Models  
of Fish Speciation*

Justin Wilkinson  
Johnson Space Center  
National Atmospheric and Space Administration (NASA)

2:30-3:30      *Impacts of Climate Change on the U.S.*

Ruth Reck  
National Director  
National Institute for Global Environmental Change (NIGEC)  
University of California at Davis

3:30-4:00              Break

4:00-5:00              Discussion Session

**DAY ONE ENDS**

# GLOBAL CHANGE EDUCATION PROGRAM

## *SURE ORIENTATION AND SHORT COURSES WORKSHOP*

*JUNE 12, 2001 - TUESDAY*

7:30-8:30                      Breakfast    Wright Quadrangle

### **Morning Session                      Woodburn Hall – Room 101**

9:00-10:00                      ***The Atmospheric Radiative Measurements (ARM) Program -  
ARM Program Overview—Objectives, Goals, and Approach***  
Douglas Sisterson  
Argonne National Laboratory (ANL)

10:00-10:30      Break

10:30-11:30      ***Tropical South Pacific CART Site***  
Fairley Barnes  
Los Alamos National Laboratory (LANL)

11:30- 12:00      Discussion

12:00-1:30                      Lunch

GLOBAL CHANGE EDUCATION PROGRAM  
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*JUNE 13, 2001 - TUESDAY*

**Afternoon Session**      **Woodburn Hall – Room 101**

1:30-2:30	<b><i>Discussion and Problem Session”</i></b>	Fairley Barnes (LANL) Douglas Sisterson (ANL)
2:30-3:00	Break	
3:00-4:30	<b><i>Mini-Workshop on Global Change Education</i></b>	Fairley Barnes (LANL)

**DAY TWO ENDS**

GLOBAL CHANGE EDUCATION PROGRAM  
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*JUNE 13, 2001 - WEDNESDAY*

7:30-8:30                      Breakfast                      Wright Quadrangle

**Morning Session**                      **Field Site**

9:30                      ***Field Trip***                      ***AmeriFlux***  
Jeff Gaffney (ANL)

12:00-1:30                      Discussion

Lunch                      Picnic at Field Site

**Afternoon Session**

**INDY ZOO!**

*HAVE A GREAT TIME*

**DAY THREE ENDS**

# GLOBAL CHANGE EDUCATION PROGRAM

## *SURE ORIENTATION AND SHORT COURSES WORKSHOP*

*JUNE 14, 2001 - THURSDAY*

7:30-8:30.                      Breakfast    Wright Quadrangle

### **Morning Session                      Woodburn Hall – Room 101**

9:00-10:00                      ***Environmental Change and the Temperate Forest: ORNL  
Research in DOE's Program for Ecosystem Research (PER)  
and Terrestrial Carbon Processes (TCP)***

Carla Gunderson  
Oak Ridge National Laboratory (ORNL)

10:00-10:30                      Break

10:30-11:30                      ***Carbon Sequestration***

Jeffrey Gaffney  
Argonne National Laboratory (ANL)

11:30-12:00                      Discussion

12:00-1:30                      Lunch

***GLOBAL CHANGE EDUCATION PROGRAM***  
***SURE ORIENTATION AND SHORT COURSES WORKSHOP***

*JUNE 14, 2001 - THURSDAY*

***Afternoon Session      Woodburn Hall – Room 101***

- |           |  |
|-----------|--|
| 1:30-2:30 | <b><i>Global Change Research in the Alaskan and Russian Arctic,<br/>Californian Chaparral, and Deserts of Baja California Sur</i></b><br>Walter Oechel<br>San Diego State University |
| 2:30-3:00 | Break  |
| 3:00-4:30 | <b><i>Panel Discussion - Problem Session</i></b>   |

**DAY FOUR ENDS**



# GLOBAL CHANGE EDUCATION PROGRAM

## *SURE ORIENTATION AND SHORT COURSES WORKSHOP*

*June 15, 2001 - FRIDAY*

7:30-8:30                      Breakfast                                      Wright Quadrangle

**Morning Session                      Woodburn Hall – Room 101**

9:00-10:00                      ***Carbon Dynamics of a Temperate Second Growth Deciduous Forest***

J.C. Randolph  
The National Institute for Global Environmental Change  
Midwestern Region

10:00-10:30      Break

10:30- 11:30                      ***The Global Distribution of Organochlorine Pesticides***

Ron Hites  
Indiana University

11:30-12:00                      Discussion

12:00-1:30                      Lunch

GLOBAL CHANGE EDUCATION PROGRAM  
*SURE ORIENTATION AND SHORT COURSES WORKSHOP*

*June 15, 2001 - FRIDAY*

**Afternoon Session      Woodburn Hall – Room 101**

- |             |   |
|-------------|---|
| 1:30-2:30   | <b><i>Carbon Uptake and Storage of Northern Temperate Forests<br/>and Their Likely Response to Global Climate Change</i></b><br><div>Peter Curtis<br/>Ohio State University</div> |
| 2:30-3:00   | Break   |
| 3:00-4:00   | <b><i>What Does a Scientist Do When Science is Uncertain?</i></b><br><div>Otto Doering<br/>Purdue University</div>  |
| 4:00 – 4:30 | Discussion Session  |

**DAY FIVE ENDS**

# GLOBAL CHANGE EDUCATION PROGRAM

## *SURE ORIENTATION AND SHORT COURSES WORKSHOP*

*JUNE 16, 2001 – SATURDAY*

7:30-8:30                      Breakfast    Wright Quadrangle

**Morning Session                      Woodburn Hall – Room 101**

9:00-10:00                      *Atmospheric Chemistry Program – ACP Overview*    Jeffrey Gaffney (ANL)

10:00-10:30                      Break

10:30-11:30                      *Environmental Meteorology Program Overview – EMP*    David Whiteman  
Pacific Northwest National Laboratory (PNNL)

12:00-1:30                      Lunch

# GLOBAL CHANGE EDUCATION PROGRAM

## *SURE ORIENTATION AND SHORT COURSES WORKSHOP*

*JUNE 16, 2001 - SATURDAY*

### **Afternoon Session – Woodburn Hall – Room 101**

1:30-2:30      ***Writing A Scientific Paper - What is Involved***

Dave Whiteman (PNNL)  
David Whiteman (PNNL)

2:30-3:00      Break

3:00-4:30      ***Poster Preparation – Chat Room Workshop***

Jeff Gaffney (ANL)

***What is expected on a poster?  
What makes a good poster?***

Figures - Graphs - Pictures

6:30-9:00      Indiana Memorial Union

*Dinner*

### ***FINAL WORKING SESSION***

***Recognition/Presentations of Certificates***

***Where Do We Go From Here? -  
Balancing Energy and Environment***

*Keynote Speaker, Jeff Gaffney, (ANL)*

**DAY SIX AND ORIENTATION ENDS**

GLOBAL CHANGE EDUCATION PROGRAM  
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*June 17, 2001 – SUNDAY*

7:30-8:30

Breakfast

Wright Quadrangle

**Students will leave the University for the airport traveling to their assigned facility for their Summer Undergraduate Research Experience**

**HAVE A GREAT EXPERIENCE WHILE AT YOUR RESEARCH FACILITY**

*See you on August 18, 2001 in Richland, Washington*